MOROZOV, A.; POPOV, A.; CHERVYAKOV, P.

What the U.S.S.R. will show abroad. Vnesh. torg. 42 no.10:38-39 '62.
(MIRA 15:10)

(Russia—Industries) (Exhibitions)

USSR / Cultivated Plants. Grains. Legumes. Tropical Cereals. M-1

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6218

Author : Chervyakov, P. A.
Inst : Khar'kov Agricultural Institute
Title : The Effect of Presowing Treatment of Barley Seeds on Their Productivity

Orig Pub : Zap. Khar'kovsk. s.-kh. in-ta, 1958, 15(52), 51-62

Abstract : The experiments took place under laboratory and field conditions in 1954-1955. They involved summer barley grown with two fertilizers in the following variations: soaking of the seeds in water at an initial temperature of 70° during 24 hours with subsequent drying up to 115-118% of the initial weight (I); heating

Card 1/2

CHERVYAKOV, P.A.

Electronic instruments at the Czechoslovak Exhibition in Moscow, 1955. Izm.tekh. no.1:83-85 '56. (MLRA 9:5)
(Moscow--Electronic measurements--Exhibitions)

CHERVYAKOV, Pavel Alekseyevich,; ISLANKINA, T.F., red.; BERLOV, A.P., tekhn. red.

[World Fair of 1958] Vsemirnaia vystavka 1958 goda v Briussele. Moskva, Izd-vo "Znanie," 1958. 45 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser. 4, no. 28). (MIRA 11:11)

(Brussels--Exhibitions)

CHERVYAKOV, Pavel Alekseyevich; FINOGENOV, A.N., red.; KAKHOVSKAYA, O.G., red.izd-va; LEKANOVA, I.S., tekhn.red.

[Organization and methods of foreign commerce of the U.S.S.R.] Organizatsiia i tekhnika vneshnei torgovli SSSR. Moskva, Vneshtorgizdat, 1958. 294 p. (MIRA 11:5)
(Commerce)

CHERVYAKOV, Pavel Alekseyevich

Organizatsiya i Tekhnika Vneshney Torgovli SSSR. Moskva, Vneshtorgizdat, 1958- v. illus., tables. Includes Bibliographies.

Chervyakov, Pavel Alekseyevich

Organizatsiya i tekhnika vneshney torgovli SSSR. Moskva, Vneshtorgizdat, 1958-
v. illus., tables.

Includes bibliographies.

CHERVYAKOV, P. D. (Co-author)

See: YURKEVICH, I. D.

Yurkevich, I. D. and Chervyakov, P. D. - "Observation of the fertility of the hornbeam, the maple, the ash, the linden, and the black alder in the forests of the Belorussian SSR," Sbornik nauch. trudov (Belorus. lesotekhn. in-t im. Kirova), Issue 7, 1948, p. 133-42.

SO: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 17, 1949).

CHERVYAKOV, P. D.: Master Agric Sci (diss) -- "The nature and economy of Zhornov oak forests". Minsk, 1958. 18 pp (Min Higher Educ USSR, Belorussian Forestry Engineering Inst im S. M. Kirov), 120 copies (KL, No 4, 1959, 129)

ACC NR: AR7000602 (N) SOURCE CODE: UR/0417/66/000/010/0065/0065

AUTHOR: Chervyakov, P. I.

TITLE: Experimental observations on cutaneous application of perhydrol during hypoxic hypoxia

SOURCE: Ref. zh. Farmakol, khimioterapevt sredst, toksikol, Abs. 10.54.452

REF SOURCE: Nauchn. tr. Omskiy med. in-t, no. 67, 1965, 70-75

TOPIC TAGS: skin effect, hydrogen peroxide, hypoxia, air

ABSTRACT: The average life span of mice in air-tight containers has been increased 1.4--1.5 times after wetting their skin with H_2O_2 and 1.3 times after an application of H_2O_2 to the skin areas devoid of fur. It was shown that the formation of O_2 as a result of the H_2O_2 contact with the pelt cannot significantly increase the atmospheric O_2 level in the sealed container. Therefore it was concluded that during decomposition of H_2O_2, the animals receive O_2 mainly through the skin. V. Mikhel'son. [Translation of abstract] [AM]

SUB CODE: 06/

Card 1/1 UDC: 615.7

ACC NR: AR7000605 (AN) SOURCE CODE: UR/0417/66/000/010/0066/0066

AUTHOR: Chervyakov, P. I.

TITLE: Effect of cutaneous application of 10% hydrogen peroxide solution on the oxygen tension in the brain, level of arterial blood oxyhemoglobin and some other indicators (based on the experimental adrenalin induced pulmonary edema in rabbits)

SOURCE: Ref. zh. Farmkol, khimioterapevt sredst, toksikol, Abs. 10.54.466

REF SOURCE: Nauchn. tr. Omskiy med. in-t, no. 67, 1965, 99-108

TOPIC TAGS: brain, skin effect, hydrogen peroxide, oxygen, blood, rabbit, pulmonary edema

ABSTRACT: Tests were made on 20 rabbits. The adrenalin solution (I) in 1:1000 dilution was introduced intravenously for the purpose of inducing pulmonary edema. The 10% hydrogen peroxide solution (10 ml) was applied with a cotton tampon to the abdominal skin for periods of 5, 15, 30 and 60 minutes following administration of (I). The oxygen tension in the brain and the level of the arterial

Card 1/2 UDC: 615.7

ACC NR: AR7000605

blood oxyhemaglobin (HbO_2) was considerably higher in the experimental group and the survival rate was 3 times higher as compared with controls. V. Yerokhin. [Translation of abstract] [AM]

SUB CODE: 06/

Card 2/2

DAVYDOV, A.; KUNYAVSKIY, M.; MALEVICH, L.; PROSHLYAKOV, V.P.: Prinimali uchastiye: SHAPPO, A.F.; CHERVYAKOV, P.Ya.; OHLYANCHIK, M.F., starshiy inzh.; REVUTSKIY, F.A., starshiy poohvoved; GUSKL'NIKOVA, O.I., inzh.; GORN, Ye.R., tekhnik; MORKOVINA, T.N., tekhnik. BONDARENKO, M., red.; BAKHTIYAROV, A., tekhn.red.

[General plan for organizing the territory of the Golodnaya Steppe] General'naia skhema organizatsii territorii Golodnoi stepi. Tashkent, Gos.izd-vo Uzbekskoi SSR, 1958. 189 p.

(Golodnaya Steppe--Agriculture) (MIRA 14:3)

CHERVYAKOV, S.S.

Experimental study of the effect of the oscillations of a sphere on heat and mass transfer in a turbulent air flow. Inzh.-fiz. zhur. 6 no.6:31-36 Je '63. (MIRA 16:6)

1. Institut teplo- i massoobmena AN Belorusskoy SSR, Minsk.
(Oscillations) (Thermodynamics)
(Air flow)

L 13331-63 EPA(b)/EPF(c)/EWT(1)/EPF(n)-2/EDS AEDC/AFFTC/ASD/
SSD Pd-4/Pr-4/Pu-4 RM
ACCESSION NR: AP3004734 S/0170/63/006/008/0010/0014

AUTHOR: Chervyakov, S. S.

71
70 21

TITLE: Experimental study of the influence of vibration on heat and mass transfer of a cylinder and a cone in turbulent air flow

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 6, no. 8, 1963, 10-14

TOPIC TAGS: heat transfer, mass transfer, turbulent air flow, cylinder, cone, vibration effect, turbulent flow

ABSTRACT: Experimental data were obtained on the influence of vibrations on the heat and mass transfer of a cylinder and a cone under various flow conditions. The procedure and method used in the experiments are the same as those used by Chevyakov with a sphere (IFZh, no. 6, 1963). The Re number varied from 2.8×10^4 to 7.6×10^4, the degree of turbulence of the air flow varied from 2.4 to 3.2%, and the temperature was 40C. The frequency of vibration of a test model was varied from 9 to 16.5 cps at an amplitude of 12 mm. The results obtained are plotted in a logarithmic system of coordinates in terms of two correlations: $Nu = A_1 Re^{n_1}$ and $Nu_m = A_2 Re^{n_2}$. The results show that at maximum vibration of test bodies (16—17 cps) heat and mass transfer coefficients increase by 40—70% in comparison with

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L 13331-63
ACCESSION NR: AP3004734

corresponding coefficients obtained in the flow over a steady body. A similar increase of heat and mass transfer intensity is obtained by additional turbulization of the boundary layer on the vibrating body. The relation $Nu/Nu_m \approx 1.5$ holds for all test bodies at equal vibration parameters and velocities of the air flow. Vibration frequency and vibration amplitude have the same influence on both heat and mass transfer in the investigated range of parameters. For different values of the amplitude and frequency which result in one value of the vibrational Reynolds number, Nu and Nu_m have the same value. Orig. art. has: 2 figures.

ASSOCIATION: Institut teplo- i massoobmena AN BSSR (Institute of Heat and Mass Transfer, AN BSSR)

SUBMITTED: 20Mar63 DATE ACQ: 27Aug63 ENCL: 00

SUB CODE: AI,PR NO REF SOV: 009 OTHER: 014

Card 2/2

SAKHAROVA, Ye., nauchnyy sotrudnik; CHERVYAKOV, V., nauchnyy sotrudnik

The first Air-Force pilots decorated with the Order of the Red Banner. Av. i kosm. no.2:8-13 F '66. (MIRA 19:1)

1. TSentral'nyy gosudarstvennyy arkhiv Sovetskoy Armii.

CHERVYAKOV, V.A.

Some geodetic terms. Geod. i kart. no.7:63-67 Jl '61.
(MIRA 14:7)

(Geodesy--Terminology)

CHERVYAKOV, V.A.

Work results of the correspondents' post at the Moscow Aerogeodetic Enterprise. Geod. i kart. no.2:45-48 F '61. (MIRA 14:9)
(Surveying--Periodicals) (Cartography--Periodicals)

CHERVYAKOV, V.A.

Organizing the terminology of geodesy. Geod.i kart. no.12: 22-26 D '62. (MIRA 16:2)
(Geodesy--Terminology)

CHERVYAKOV, V.A.

Determining the rate of gully erosion with the aid of aerial photography. Vest. Mosk. un. Ser. 5: Geog. 18 no.1:23-27 Ja-F '63. (MIRA 16:5)

1. Kafedra geodezii i kartografii Moskovskogo universiteta.
(Verkhnedneprovsk District—Erosion)
(Verkhnedneprovsk District—Aerial photography in geology)

CHERVYAKOV, V.A.

The style of technical articles. Geod. i kart. no.1:73-77 Ja '64. (MIRA 17:9)

CHERVYAKOV, V.A.

Introducing the "Universal Decimal Classification." Geod. i kart. no.3:64-68 Mr '64. (MIRA 17:9)

CHERVYAKOV, V.A.

Cartographic method of determining the forms and closeness of correlative relations. Vest. Mosk. un. Ser.5: Geog. 19 no.5:75-78 S-O '64. (MIRA 18:1)

RAYTSESS, A.M., inzh.; CHERVYAKOV, V.I., inzh.; TAUBENSHLAK, P.G.;

[Universal means for the mechanization of fitting and assembling operations]Universal'nye sredstva mekhanizatsii slesarnykh i slesarno-sborochnykh rabot. Moskva, Otdel tekhn. informatsii, 1962. 132 p. (MIRA 15:11)

1. Russia (1917- R.S.F.S.R.)Moskovskiy gorodskoy ekonomicheskiy administrativnyy rayon. Sovet narodnogo khozyaystva. 2. Otdel avtomatizatsii i mekhanizatsii slesarnykh i slesarno-sborochnykh rabot Moskovskogo gorodskogo soveta narodnogo khozyaystva (for Raytsess, Chervyakov). 3. Nachal'nik otdela avtomatizatsii i mekhanizatsii sborochnykh rabot Moskovskogo gorodskogo soveta narodnogo khozyaystva (for Taubenshlak).

(Machine-shop practice)

DORMIDONTOV, Vladimir Konstantinovich; AREF'YEV, Timofey Vasil'yevich; KISELEVA, Nina Arsen'yevna; KUZ'MENKO, Vladimir Kuz'mich; LUK'YANOV, Petr Grigor'yevich[deceased]; NIKITIN, Yevgeniy Ivanovich; TURUNOV, Savva Matveyevich; CHERVYAKOV, V.I., laureat Leninskoy premii, inzh., retsenzent; MESHCHERYAKOV, V.V., inzh., retsenzent; KAZAROV, Yu.S., red.; CHISTYAKOVA, R.K., tekhn. red.

[Shipbuilding technology]Tekhnologiia sudostroeniia. Pod obshchei red. V.K.Dormidontova. Leningrad, Sudpromgiz, 1962. 695 p. (MIRA 16:1)

(Shipbuilding)

CHERVYAKOV, V.I., laureat Leninskoy premii

Experience acquired in the building of the icebreaker "Lenin."
Sudostroenie 27 no.8:40-46 Ag '61. (MIRA 14:9)
(Lenin (Atomic ship)) (Shipbuilding)

CHERVYAKOV, V. L.

Swine Breeding

26 pigs per year from each brood sow. Sots. zhiv 14 No. 9, 1952

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

CHERVYAKOV, V. L.; MYTNIK, Ya. A.

Stock and Stockbreeding - Orel Province

Mechanization of stockbreeding on collective farms of Orel Province. Sots. zhiv. 15, No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. UNCLASSIFIED.

CHERVYAKOV, V. V.

CHERVYAKOV, V. V.: "Investigation of certain fundamental properties of the atoms of the chemical elements." Min Higher Education Ukrainian SSR. Odessa Polytechnic Inst. Chair of Processes, Apparatus, and the Automation of Chemical Production. Odessa, 1956. (Dissertation for the Degree of Candidate in Technical Science.)

Knizhnaya letopis', No. 30, 1956. Moscow.

SOV/81-59-5-14257

Translation from: Referativnyy zhurnal, Khimiya, 1959, Nr 5, p 8 (USSR)

AUTHORS: Bol'shakov, A.G., Chervyakov, V.M.

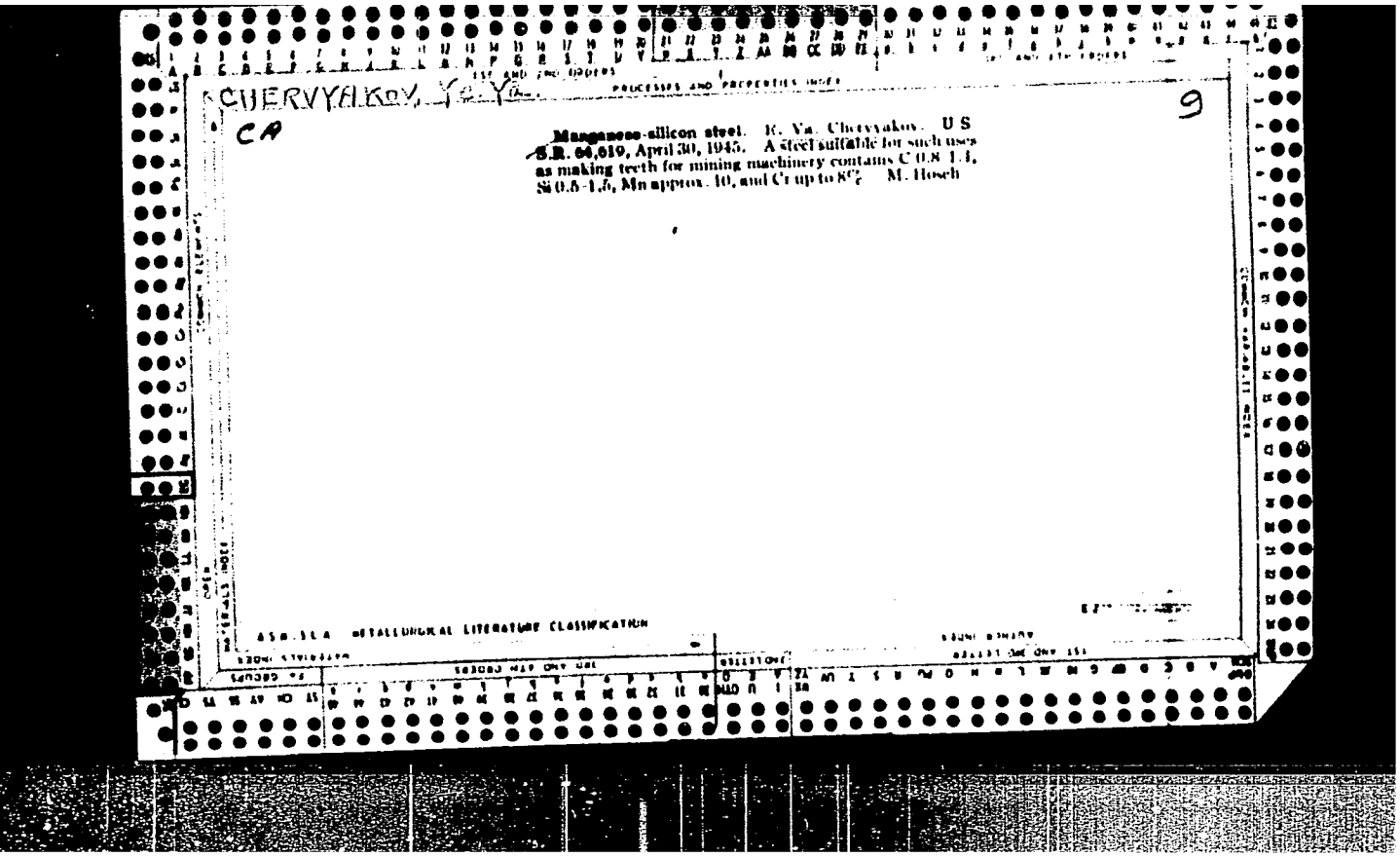
TITLE: On the Law of Constancy of the Second Differences in Potentials of Atom and Ion Ionization

PERIODICAL: Nauchn. zap. Odessk. politekhn. in-t, 1957 (1958), Vol 17, pp 13 - 27

ABSTRACT: An analysis was conducted on the potentials of ionization of atoms and ions for most of the elements in the periodic table of elements. It was found, that the second differences of these potentials of ionization, for a given isoelectronic row, are constant values. Experimental data for five isoelectronic rows are presented, confirming this statement. A general formula for the computation of ionization potentials of atoms and ions for all isoelectronic rows is presented and the constants contained in it are computed. Several problems in the physics of the atom, which were resolved by means of the derived formula, are enumerated.

Yu. Dontsov

Card 1/1


CHERVYAKOV, Ye. Ya.
CA
9
Manganese-silicon steel. E. Ya. Chervyakov. U S S.R. 66,619, April 30, 1945. A steel suitable for such uses as making teeth for mining machinery contains C 0.8-1.1, Si 0.5-1.5, Mn approx. 10, and Cr up to 8%. M. Hosch
METALLURGICAL LITERATURE CLASSIFICATION

S/129/63/000/001/006/017
E073/E551

AUTHORS: Likhosherstov, D.M. and Chervyakov, Yu.S., Engineers

TITLE: On increasing the cavitation-erosion and corrosion resistance of engine components

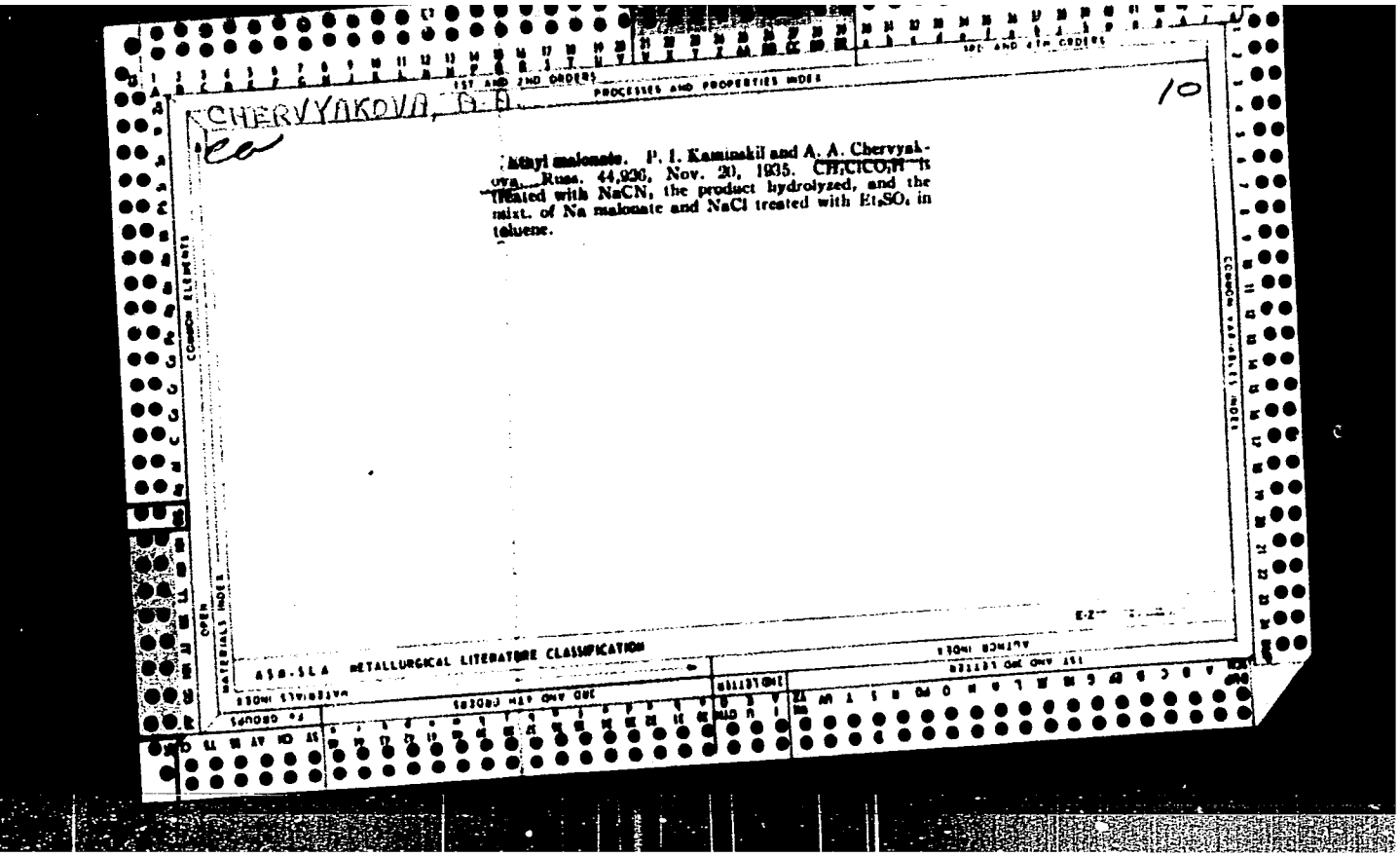
PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov, no.1, 1963, 19-21

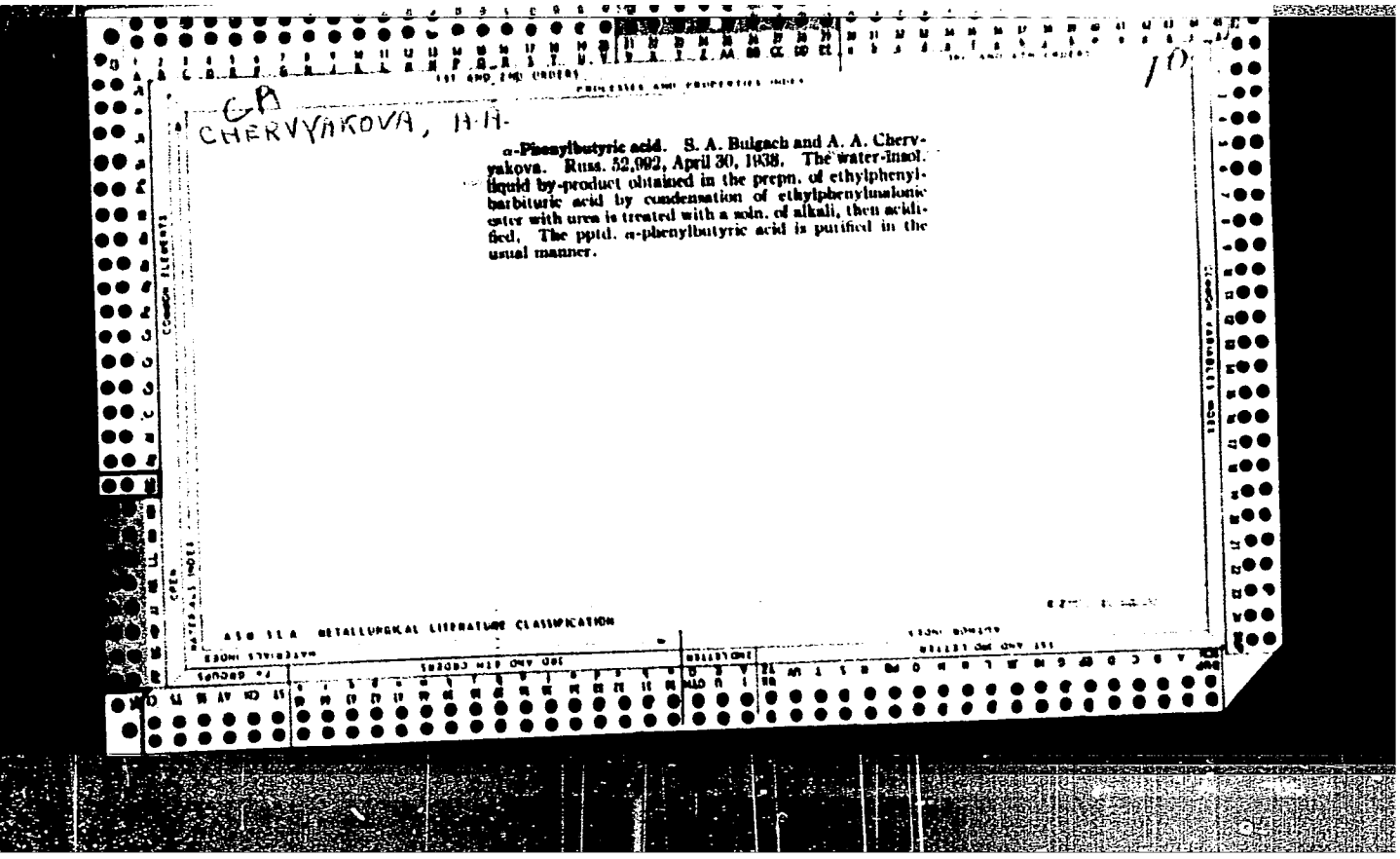
TEXT: Nitriding to a depth of 0.5-0.8 mm was developed as a low-cost substitute for the chromium-plating of cylinder liners made of the steel 38ХМЮА (38KhMYuA). To avoid excessive warping the liners were nitrided in two stages, first the internal surface and then the external. To determine the optimum surface quality for nitriding, specimens at various stages of the rough and final machining were used, and to determine the effect of preliminary surface treatment, batches of liners were nitrided at 520°C using ammonia with a 25-30% dissociation. The phase compositions were determined by analysis of layers at the surface and at the depths of 0.02 mm and 0.04 mm. Nitriding times of 3 and 6.5 hours were used. The surface layers consisted of $\varepsilon + \gamma'$, and the layer at 0.04 mm of α-phase, for all types of surface

Card 1/2

preparation and for times of both 3 and 6.5 hours. With the 0.02 mm layers, phosphate pretreatment gave $\varepsilon + \gamma'$ after both 3 and 6.5 hours, sandblasting gave $\gamma' + \alpha$ after 3 hours and $\varepsilon+\gamma'+\alpha$ after 6.5 hours, and simple degreasing gave $\gamma' + \alpha$ after 3 hours and $\varepsilon + \gamma'$ after 6.5 hours. Nitriding of the outer surface produced a maximum warping of 0.1 mm, less than half of the permissible value. Running tests showed no traces of cavitation-erosion or corrosion damage after 2100 hours, but zinc or chromium-plated reference specimens showed partial destruction. Nitrided liners did not show any trace of cavitation damage after more than 4000 hours whilst chromium-plated liners began to fail after 2000 hours and zinc-plated liners after 1000 hours. Because of the increased cavitation-erosion resistance of the liners it became necessary to substitute an Al9 alloy cylinder jacket for the usual cast-iron, but no damage to the alloy was observed after 3000 hours operation. There is 1 table.

ASSOCIATION: Tomskiy politekhnicheskiy institut
(Tomsk Polytechnic Institute)





CA

CHERVYAKOVA, A.A.

α-Phenylbutyric acid. S. A. Bulgach and A. A. Chervyakova. Russ. 52,992, April 30, 1938. The water-insol. liquid by-product obtained in the prepn. of ethylphenylbarbituric acid by condensation of ethylphenylmalonic ester with urea is treated with a soln. of alkali, then acidified. The pptd. α-phenylbutyric acid is purified in the usual manner.

S/191/62/000/006/002/016
B110/B138

AUTHORS: Sevryugova, N. N., Sokol'skiy, V. A., Chervyakova, A. A., Zhavoronkov, N. M.

TITLE: High purification of industrial styrene

PERIODICAL: Plasticheskiye massy, no. 6, 1962, 5-7

TEXT: An attempt was made to reduce the impurity content of styrene to analytical purity. Rectification was performed at 50 mm Hg in a Pyrex laboratory rectification column. The column, 1.5 mm high and 30 mm in diameter, was filled with 3·3 mm spirals of 0.2 mm stainless wire and possessed only a slight hydraulic resistance. The surface of the condensation column was calculated so that vapor completely condensed even under maximum pressure. Before setting the apparatus in operation, it was evacuated to 1-2 mm Hg, 1 liter styrene was poured into the flask, and the heater switched on. With a styrene/ethyl benzene mixture in a ratio of 4 to 1% and a distribution coefficient of 1.38, the maximum load on the cross-section of the column was 1100 cc/hr, equivalent to 160 cc/cm^2·hr. With a minimum charge of 500 cc/hr, the steady state developed after 6 hrs.

Card 1/2

High purification of industrial ...

As the efficiency of the column falls only slightly with increasing charge, later experiments were conducted with maximum charge. Following N. N. Bushmakin (ZhPKh, 33, no. I, 127 (1960)) the relation of the efficiency of the column to the reflux was determined at 10-12 mm Hg (upper part of the column) and 1000 cc/hr. The efficiency fell only slightly after an extraction of more than 15-20%. An attempt was then made to produce pure styrene at an efficiency of 18-20 theoretical plates, a residual pressure of 14 mm Hg (upper part of the column), and 1000 cc/hr. The steady state was reached after 8 hrs, and extraction proceeded at a constant rate. At 500 cc of styrene, fraction I (50 cc) contained volatile constituents (ethyl benzene and water), fraction II $< 0.1\%$ by weight of ethyl benzene, $< 0.0002\%$ by weight of divinyl benzene, $< 0.0002\%$ by weight of water, $< 0.01\%$ by weight of polymer, and $< 0.0001\%$ by weight of hydroquinone. The quantity of ethyl benzene was determined from the index of refraction or by spectral analysis (absorption bands in the infrared) with an accuracy of 0.1%. Divinyl benzene was determined by spectrophotometry, water with Fischer's reagent, and the polymer and hydroquinone only qualitatively with 4% alkali. There are 3 figures and 1 table.

CHERVIAKOVA, A.F.

Daily variation in the brightness of meteors. Trudy Inst.fiz.i geofiz.AN Turk.SSR 2:171-174 '56. (MLRA 10:5)
(Meteors)

CHERVYAKOVA, A.F.

Results of photographic observations of artificial earth satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.8:20-23 '60. (MIRA 14:3)

1. Fiziko-tekhnicheskiy institut AN Turk.SSR, nachal'nik stantsii nablyudeniya iskusstvennykh sputnikov Zemli.
(Artificial satellites--Tracking)

CHERVYAKOVA, A.F.

Results of photographic observations of the Ekho-1, 1960, artificial satellite at the Institute of Astrophysics of the Academy of Sciences of the Turkmen S.S.R. in Ashkhabad. Biul.sta.opt.nabl.isk.sput.Zem. no.26:3-6 '62. (MIRA 15:7)

1. Nachal'nik stantsii nablyudeniy iskusstvennykh sputnikov Zemli No.074.

(Artificial satellites—Tracking)

CHERVYAKOVA, A.F.; PLUZHNIKOV, V.Kh.; GORELOV, Ya.P.; SHERBAUM, L.M.; KRYLOV, A.G.; SENTSOVA, Yu.Ye.; KHARIN, B.T.

Results of photographic observations of artificial satellites. Biul.sta.opt.nabl. isk.sput.Zem. no.25:23-28 '62. (MIRA 15:7)

1. Nachal'nik stantsii nablyudeniya iskusstvennykh sputnikov Zemli Instituta astrofiziki AN Turkmenskoy SSR (for Chervyakova). 2. Nachal'nik Khar'kovskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Pluzhnikov). 3. Nachal'nik stantsii nablyudeniy iskusstvennykh sputnikov Zemli Gosudarstvennogo astronomicheskogo instituta im. P.K.Shternberga (for Gorelov). 4. Astronomicheskaya observatoriya Kiyevskogo universiteta (for Sherbaum). 5. Stantsiya Astronomicheskogo soveta AN SSSR (for Krylov, Sentsova). 6. Nachal'nik Tomskoy stantsii opticheskikh nablyudeniy iskusstvennykh sputnikov Zemli (for Kharin).

(Artificial satellites—Tracking)

BRATIYCHUK, M.V.; BELENKO, [illegible].I.; KRYLOV, A.G.; SENTSOVA, Yu.Ye.; YUREVICH, V.; TUMANYAN, B.Ye.; KHARIN, B.T.; CHERVYAKOVA, A.F.; BERUCHKA, Yu.I.; PLUZHNIKOV, V.Kh.; SHILKINA, Z.A.

Results of photographic observations of artificial satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.28:16-30 '62. (MIRA 15:12)

1. Nachal'nik Uzhgorodskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Bratiychuk). Stantsiya Astronomicheskogo soveta AN SSSR (for Belenko, Krylov, Sentsova, Yurevich, Shilkina). 3. Nachal'nik Yerevanskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Tumanyan). 4. Nachal'nik Stantsii nablyudeniya iskusstvennukh sputnikov Zemli pri Tomskom gosudarstvennom universitet (for Kharin). 5. Nachal'nik stantsii No.074, Instituta astrofiziki AN Turkmenskoy SSR (for Chervyakova). 6. Nachal'nik stantsii nablyudeniya iskusstvennykh sputnikov Zemli Astronomicheskoy observatorii Khar'kovskogo universiteta (for Pluzhnikov).
(Artificial satellites—Tracking)

KULAKOV, D.V.; OCHKIN, F.V.; KARPOVA, V.V.; SIMAKINA, N.V.; YAGUDIN, Z.Kh.; GREBENSHCHIKOVA, N.F.; CHEREMUSHKINA, V.M.; YELISEYEV, I.A.; CHERVYAKOVA, A.P.; BEREZOV, A.A.; FEDOTOVA, A.I.; SILKINA, I.V.; NOVIKOVA, V.P.; TANOVA, V.P.; NESVETAYEVA, G.M.; ADSKAYA, V.M.; DRYUCHIN, A.P., otv. red.; KONDRASHOVA, V.I., tekhn. red.

[Economy of Saratov Province in 1960; collected statistics]Narodnoe khoziaistvo Saratovskoi oblasti v 1960 godu; statisticheskii sbornik. Saratov, Gos.stat.izd-vo,1962. 325 p. (MIRA 15:9)

1. Saratov(Province)Statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo upravleniya Saratovskoy oblasti (for Dryuchin).
(Saratov Province--Statistics)

CHERVYAKOVA, G. P.

36008 Kratkaya kharakteristika rastitel'nosti avandel'ty R. Volgi. Nauch.-metod. Zapiski (Sovet ministrov RSFSR, Glav. Upr po zapovednikam), Vyp. 11, 1949, S. [illegible]-[illegible]3

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

CHERVYAKOVA, G. F.

"Ecological and Phytocenological Investigations in Connection With Measures for the Improvement of the Plant Life of the Stalingrad Watershed." Cand Biol Sci, Saratov U, Saratov, 1954. (RZhBiol, No 4, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14).

ALIMBAYEVA, S.K.; ZEMLYANAYA, G.P.; KOMAROV, P.V.; CHERVYAKOVA, G.F.

Spring excursions to the mountains. Uch. zap. Kir. zhen. ped. inst. no. 4:153-216 '59. (MIRA 14:1)
(Kirghizistan--School excursions) (Biology--Study and teaching)

CHERVYAKOVA, K. I.

USSR

The effect of Clostridium perfringens toxin on phagocytosis. S. M. Minervin, K. I. Chervyakova, and S. P. Zink (Sci. Research Inst. Vaccine and Serums, and Med. Inst., Odessa). *Mikrobiol. Zhur., Akad. Nauk Ukr. R.S.R.* 16, No. 3, 85–9(1954)(Russian summary).—*C. perfringens* toxin, 18 days old, lowers the phagocytic properties of leucocytes of guinea pigs and rabbits. Specific antitoxic serum restores the level of phagocytosis in some instances. The degree of phagocytic activity depression differs with the toxins of different perfringens strains. Heat-inactivated toxin has no effect on the phagocytic properties of leucocytes. Rabbit leucocytes are more sensitive to the toxin than are those of guinea pigs. The unfavorable effect on phagocytosis of perfringens toxins 5 and 48 hours old is slight.

B. S. Levine

MINERVIN, S.M.; ZHAK, S.P.; CHERVYAKOVA, K.I.

Effect of tissue extracts from areas injured by gas infection on phagocytosis. Mikrobiol.zhur. 16 no.4:78-81 '54. (MLRA 10:1)

1. Z Kafedri mikrobiologii Odes'kogo medichnogo institutu.
(PHAGOCYTOSIS) (GANGRENE) (TISSUE EXTRACTS)

CHERVYAKOVA, K.I.

MINERVIN, S.M.; ZHAK, S.P.; CHERVYAKOVA, K.I.

Observations on the sensitizing action of botulin toxin. Zhur. mikrobiol.epid.i immun. no.5:48-53 My '55. (MLRA 8:7)

1. Iz kafedry mikrobiologii (zav. prof. S.M.Minervin) Odesskogo meditsinskogo instituta imeni Pirogova (dir.-prof. I.Ya.Deyneka) i Odesskogo instituta vaktsin i syvorotok imeni I.I.Mechnikova (dir.-dotsent N.D.Anina-Radchenko).

(TOBULISM,
toxin, sensitizing action)

CHERVYAKOVA, K.I.

MINERVIN, S.M.; CHERVYAKOVA, K.I.; CHOPOROVA, M.I.

Effect of V. septicus toxin on phagocytosis. Mikrobiol. zhur. 17 no.4:46-54 '55 (MLRA 10:5)

1. Z Odes'kogo institutu vaktsin i sivorotok i kafedri mikrobiologii Odes'kogo medichnogo institutu im. M.I. Pirogova.
(CLOSTRIDIUM,
septicum toxin, eff. on phagocytosis) (Uk)
(PHAGOCYTOSIS,
eff. of Clostridium septicum toxin) (Uk)

F

Country : USSR
CATEGORY :

ABS. JOUR. : RZBiol., No. 5 1959, No. 10217

AUTHOR : Minervin, S. M., Chervyakova, K. I.
INST. : ---
TITLE : Observations on the Antibacterial Effect of Colon Bacilli in Experimental Gas Gangrene

ORIG. PUB. : Sb.: Anaerobnyye infektsii. Kiev, Gosmedizdat UkrSSR, 1957, 121-130

ABSTRACT : Filtrates (F) of 3 day bouillon cultures of colon bacilli -- 146 strains freshly isolated from the stools of people and horses -- were added in quantities of 1-5 cubic centimeters to fused agar or to milk at the same time as 0.2 cubic centimeter of a culture of Clostridium perfringens, Cl. oedematiens or Cl. septicum. It was shown that certain strains of colon bacillus possess antibacterial properties with respect to the pathogens of gas gangrene. Preliminary heating of F at 100° for 1 hour did

CARD: 1/3

CHERVYAKOVA, K.I.

VAYNBERG, B.G.; CHERVYAKOVA, K.I.; BRUTMAN, Ye.I.; CHOPOROVA, M.I.

Filtrable forms of Salmonella typhosa, Salmonella paratyphi, and Shigella paradysenteriae; production and regeneration method modifying variability. Zhur.mikrobiol.epid. i immun. 28 no.3: 91-100 Mr '57. (MLRA 10:6)

1. Iz Odesskogo instituta vaktsin i syvorotok imeni I.I.Mechnikova.
(SALMONELLA TYPHOSA, culture,
prod. of filtrable forms (Rus))
(SALMONELLA PARATHYPHI, culture,
same)
(SHIGELLA DYSENTERIAE, culture,
same)

Chervyakova, K.I.

MINERVIN, S.M., CHERVYAKOVA, K.I. [CHERV'IAKOVA, K.I.], CHOPOROVA, M.I.

Detecting the hemotoxin of Bacillus perfringens in the focus of infection produced by this microbe. Mikrobiol.zhur. 20 no.2:47-51 '58 (MIRA 11:7)

1. Z Odes'kogo naukovo-doslidnego institutu vaktsin i sirovatok im. Mechnikova i z kafedri mikrobiologii Odes'kogo gosudarstvennogo meditsinskogo institutu im. Pirogova.
(CLOSTRIDIUM PERFRINGENS)
(HEMOLYSIS AND HEMOLYSINS)

VAYNBERG, B.G. [Vainberg, V.H.]; CHERVYAKOVA, K.I.; CHOPOROVA, M.I.

Experimental data on the treatment of paratyphoid B infection in white mice with levomycetin and antiendotoxic serum administered separately or simultaneously. Mikrobiol.zhur. 21 no.2:62-67 '59. (MIRA 12:9)

1. Z Odes'kogo n.-d.institutu epidemiologii i mikrobiologii im. I.I.Mechnikova.

(PARATYPHOID FEVER - experimental)
(CHLORAMPHENICOL - pharmacology)
(IMMUNE SERUMS - pharmacology)

ACC NR: AT6027156 (A) SOURCE CODE: UR/3214/66/000/003/0103/0112

AUTHOR: Flaumenbaum, B. L. (Docent); Chervyakova, K. I. (Candidate of biological sciences); Nguyen Van N'yt (Aspirant); Valyavskaya, M. Ye. (Engineer); Kaushanskaya, L. Z. (Engineer); Storozhuk, V. N. (Engineer); Terletskaya, L. A. (Engineer); Faynberg, S. G. (Engineer)

ORG: none

TITLE: Search for new operating conditions in sterilization of canned goods for projected continuously operative equipment

SOURCE: Ukraine. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya. Pishchevaya promyshlennost', no. 3, 1966, 103-112

TOPIC TAGS: food technology, food preservation, food sterilization, applied mathematics, food product machinery, processed plant product

ABSTRACT: New operative conditions for sterilizing tomato juice in an Odessa factory were worked out at the Odessa Technological Institute for the Food and Refrigeration Industry, based on a continuous operation (see Figure 1) with successive heating and cooling of 0.5 and 0.2 liter bottles filled with juice at 80-85 C and immersed in water of various temperatures. The sterilization temperatures tested were 100, 95, and 92 C. Temperatures in the bottle center were measured with a thermocouple. The

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ACC NR: AT6027156

where A is the sterilizing effect, τ_p is the time interval during which temperature in the bottle center is recorded, K_A is the peroxidizing coefficient. The value of A was found a reliable indicator for sterilization, preferable to that of the "heat number". Earlier tests had determined 25 min for 90 C or 15-20 min for 95 C. New tests found that the same A effect could be obtained 16% faster at 100 C for the 0.5 liter bottle and 10% faster for the 0.2 bottle at the same temperature. For the other temperatures, sterilization time figures were comparable to or higher than the older ones. Microbiologic tests of the sterilization formulas with juice infected with Penicillium glaucum, Aspergillus niger, yeasts and Bac. mesentericus ruber, then sterilized according to formula and kept at room temperature for 3 months or at higher temperatures for 5-8 days, gave satisfactory results. The formulas worked out are given for 100, 95 and 92 C and for the 2 sizes of bottles. Thus for 0.2 liter bottles the formula is 0-30-5-5-5/100 C, where the first figure indicates that the sterilization process proper is starting, the second gives the sterilization period, and the third, fourth and fifth give stepwise cooling in water baths of 80, 60 and 40 C. It was concluded that the formulas found had been proved reliable in microbiological tests. Orig. art. has: 10 figures and 8 formulas.

SUB CODE: 06, 13/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 001

Card 3/3

TROFIMOVA, V.I.; SHTEYMAN, R.A.; SHAPIRO, M.S.; MALEVICH, O.A.; ODINTSOV, A.I.; GROZNOV, S.R.; RYBAK, I.A.; SHORIN, G.F.; BELYAKOV, K.M.; SIDOROV, V.A.; VOYTINSKAYA, S.Ye.; DUNTSOVA, K.G.; KHRUSTALEVA, O.N.; CHERVYAKOVA, L., red.; BABICHEVA, V.V., tekhn.red.

[Manual on technological advice and technical specifications for semiprocessed products and dishes of meat, poultry, fish, potatoes, and vegetables] Sbornik tekhnologicheskikh instruktsii i tekhnicheskikh uslovii na polufabrikaty i kulinarnye izdeliia iz miasa, ptitsy, ryby, kartofelia i ovoshchei. Moskva, Gos.izd-vo torg. lit-ry, 1958. 101 p. (MIRA 13:4)

1. Russia (1923- U.S.S.R.). Ministerstvo torgovli.
(Food industry) (Cookery)

ACC NR: AP6033839 SOURCE CODE: UR/0139/66/000/005/0172/0173

AUTHOR: Melik-Gaykazyan, I. Ya.; Chervyakova, L. A.

ORG: Tomsk Polytechnic Institute im. S. M. Kirov (Tomskiy politekhnicheskiy institut)

TITLE: X-ray coloring of triple charged NaCl single crystals activated by neodymium ions

SOURCE: IVUZ. Fizika, no. 5, 1966, 172-173

TOPIC TAGS: neodymium, activated crystal, x ray coloring

ABSTRACT: The effects of a triple charged, cation-substituted admixture of Nd on the formation of electron centers in NaCl under the influence of x-rays were examined. The NaCl single crystals were grown for about 100 hr in evacuated quartz ampoules. The dimensions of the crystals grown were l = 40-50 mm, d = 10-12 mm. The batch was prepared from $NdCl_3$ and from purified NaCl. The irradiation was performed with a URS-55A x-ray machine with a Cu anticathode operating at 45 Kev and 12 ma. The chemical concentration of Nd in NaCl·Nd crystals was within $1.15 \cdot 10^{-3}$–$4.3 \cdot 10^{-4}$ percent by weight. The varying content of Nd in the crystal may decrease or increase the formation rate of F-centers. Thus, the absorption coefficient at the maximum of the F-band at Nd concentrations of ~0.08% (molar) may increase by a factor of 1.5; with admixture content of ~0.05% (molar), the absorption coefficient decreases almost by a factor of three.

Card 1/2

CHERVYAKOVA, L. S.

PANOV, Mikhail Aleksandrovich; CHERVYAKOVA, L.S., redaktor; ROSLOV, G.I., tekhnicheskiy redaktor

[Growing mushrooms] Vyrashchivanie shampin'onov. Moskva, Gos. izd-vo torg.lit-ry, 1956. 137 p. (MLRA 10:9)
(Mushrooms)

CHERNIKOVA, Lidiya Vladimirovna; CHERVYAKOVA, L.S., redaktor; SUDAK, D.M., tekhnicheskiy redaktor

[Hygiene and sanitation for public eating establishments] Gigiena i sanitariia v predpriiatiiakh obshchestvennogo pitaniia. Moskva, Gos. izd-vo torgovoi lit-ry, 1956. 143 p. (MLRA 9:7)
(RESTAURANTS, LUNCH ROOMS, ETC.--HYGIENIC ASPECTS)

LOPATKIN, V.G., dotsent, kand.ekonom.nauk, red.; LYUDSKOV, B.P., red.; ISHKOVA, A.K., red.; KAGANOVA, A.A., red.; CHERVYAKOVA, L.S., red.; GRANOVSKAYA, I.E., red.; MEDRISH, D.M., tekhn.red.

[Collected scientific works] Sbornik nauchnykh rabot. Pod red. V.G.Lopatkina. Moskva, Gos.izd-vo torg.lit-ry, 1956. 240 p. (MIRA 14:2)

1. Moscow. Nauchno-issledovatel'skiy institut torgovli i obshchestvennogo pitaniya.
(Food industry)

CHERVYAKOVA, L. S.

SEMATOV, Igor' Grigor'yevich; CHERVYAKOVA, L.S., redaktor; BALASHOV, V.I., tekhnicheskiy redaktor

[Sanitary engineering in public catering enterprises; a textbook] Sanitarnaia tekhnika v predpriiatiiakh obshchestvennogo pitaniia; uchebnoe posobie. Moskva, Gos.izd-vo torg.lit-ry. Sec.2. (MLRA 10:9) [Ventilation] Ventiliatsiia. 1957. 111 p.
(Restaurants, lunchrooms, etc.--Ventilation)

CHERVYAKOVA, L.S.

TROFIMOVA, V.I., red.; ANTONOV, M.V., kand.tekhn.nauk, red.; CHERVYAKOVA, L.S., red.; SUDAK, D.M., tekhn.red.

[Collected scientific works; problems of public food service and food storage] Sbornik nauchnykh rabot; voprosy obshchestvennogo pitaniia i khraneniia tovarov. Pod red. V.I.Trofimovoi i M.V. Antonova. Moskva, Gos. izd-vo torg. lit-ry, 1957. 195 p (MIRA 11:6)

1. Moscow. nauchno-issledovatel'skiy institut torgovli i obshchestvennogo pitaniya.
(Restaurants, lunch rooms, etc.)
(Food--Storage)

MORGYNIS, Izrail' Yakovlevich; CHERVYAKOVA, L.S., red.; KISELEVA, A.A., tekhn.red.

[Sanitation in public dining establishments] Gigiena v predpriiatiiakh obshchestvennogo pitaniia. Izd.2., perer. i dop. Moskva, Gos.izd-vo torg.lit-ry, 1959. 304 p. (MIRA 13:1)
(Restaurants, lunchrooms, etc.--Sanitation)

MASLOV, Leonid Aleksandrovich; CHERVYAKOVA, L.S., red.; BABICHEVA, V.V., tekhn.red.

[Principles of the technology of food preparation] Osnovy tekhnologii prigotovleniia pishchi. Moskva, Gos.izd-vo torg. lit-ry, 1960. 109 p. (MIRA 14:2)
(Cookery)

VYSHELESSKIY, Aleksandr Nikolayevich; prof.; GORDON, L.I., dotsent, kand.tekhn.nauk, retsenzent; IL'IN, Ye.V., prepodavatel', retsenzent; RYABOV, V.I., prepodavatel', retsenzent; CHERVYAKOVA, L.S., red.; MEDRISH, D.M., tekhn.red.

[Heat equipment for food processing in public eating establishments] Teplovoe oborudovanie predpriiatii obshchestvennogo pitaniia. Moskva, Gos.izd-vo torg.lit-ry, 1960. 380 p. (MIRA 14:3)

1. Leningradskiy tekhnikum obshchestvennogo pitaniya (for Il'in).
2. Moskovskiy tekhnikum obshchestvennogo pitaniya (for Ryabov).
(Restaurants, lunchrooms, etc.--Equipment and supplies)

BORISOVA, Yelizaveta Aleksandrovna; CHERVYAKOVA, L.S., red.; BRODSKIY, M.P., tekhn. red.

[Chemical control in public eating enterprises] Tekhnokhimicheskii kontrol' v predpriiatiiakh obshchestvennogo pitaniia. 2., perer. izd. Moskva, Gos. izd-vo torg. lit-ry, 1961. 143 p. (MIRA 14:11)
(Food--Analysis)

PAVLOV, Yevdokiya Kuz'minichna. Prinimal uchastiye NOSOV, G.Ya., kand. tekhn. nauk, prepodavatel'; KIRILLOV, A.Ya., inzh., red.; CHERVYAKOVA, L.S., red.; EL'KINA, E.M., tekhn. red.

[Mechanical equipment for public eating establishments] Mekhanicheskoe oborudovanie predpriiatii obshchestvennogo pitaniia. Pod red. A.IA.Kirillova. Moskva, Gos. izd-vo torg. lit-ry, 1961. 238 p. (MIRA 15:1)

1. Moskovskiy tekhnikum obshchestvennogo pitaniya (for Nosov).
(Restaurants, lunchrooms, etc.—Equipment and supplies)

LUK'YANOV, Nikolay Ivanovich; CHERVYAKOVA, L.S., red.

[Production organization in public eating establishments] Organizatsiia proizvodstva predpriiatii obshchestvennogo pitaniia. Izd.3., perer. i dop. Moskva, Gostorgizdat, 1961. 230 p. (MIRA 18:4)

HREMENER, Solomon Mikhaylovich, kand. med. nauk; CHERVYAKOVA, L.S., red.; MEDRISH, D.M., tekhn. red.

[Hygiene of nutrition; with principles of anatomy and physiology] Gigiena pitaniia; s osnovami anatomii i fiziologii. Izd.3. dop. i perer. Moskva, Gos.izd-vo torg. lit-ry, 1962. 327 p. (MIRA 15:7)

(ANATOMY, HUMAN) (NUTRITION) (FOOD HANDLING—HYGIENIC ASPECTS)

SHAPIRO, Mariya Samoylovna; TRAYNINA, Glafira Grigor'yevna; CHERVYAKOVA, L.S., red.; GROMOV, A.S., tekhn. red.

[Laboratory testing of food in public food service] Laboratornyi kontrol' v obshchestvennom pitanii. 2., dop. i perer. izd. Moskva, Gos. izd-vo torg. lit-ry, 1962. 392 p. (MIRA 15:3)
(Food adulteration and inspection)

KRASNITSKAYA, Yelizaveta Semenovna; PORVATOVA, Ol'ga Mikhaylovna; CHERVYAKOVA, L.S., red.; MAMONTOVA, N.N., tekhn. red.

[Sanitation in public eating establishments] Sanitariia predpriiatii obshchestvennogo pitaniia. Moskva, Gostorgizdat, 1963. 87 p. (MIRA 16:5)
(Restaurants, lunchrooms, etc.--Sanitation)

VYSHELESSKIY, Aleksandr Nikolayevich, prof.; GORDON, L.I., spets. red.; CHERVYAKOVA, L.S., red.; MEDRISH, D.M., tekhn. red.

[Heating equipment of public eating establishments] Teplovoe oborudovanie predpriiatii obshchestvennogo pitaniia. Izd.2., dop. i perer. Moskva, Gostorgizdat, 1963. 688 p. (MIRA 16:7)

(Restaurants, lunchrooms, etc.--Equipment and supplies)

CHUKAYEV, Dmitriy Sergeyevich; CHERVYAKOVA, L.S., red.; VOLKOVA, V.G., tekhn. red.

[Electrical equipment of public eating establishments] Elektricheskoe oborudovanie predpriiatii obshchestvennogo pitaniia. Moskva, Gostorgizdat, Pt.1. 1963. 232 p.(MIRA 16:11)
(Restaurants, lunch rooms, etc.--Electric equipment)

GORSHKOV, Yuriy Yevgrafovich; POPOV, Nikolay Nikolayevich; SMIRNOV, V.B., red.; VYSHELESSKIY, A.N., prof., doktor tekhn. nauk, red.; CHERVYAKOVA, L.S., red.; EL'KINA, E.M., tekhn. red.

[Equipment of public eating establishments] Oborudovanie predpriiatii obshchestvennogo pitaniia. Moskva, Gostorgizdat, 1963. 287 p. (MIRA 17:2)

ANUFRIYEV, V.; KIRILLOVA, G.; KIKNADZE, N.; CHERVYAKOVA, L.S., red.; VOLKOVA, V.G., tekhn. red.

[Sauces, spices] Sousy, spetsii. Moskva, Izd-vo "Ekonomika," 1964. 151 p. (MIRA 17:4)

ZANADVOROV, Sergey Ivanovich; LOVACHEVA, Galina Nikolayevna; CHERVYAKOVA, L.S., red.

[Practical work on the technology of food preparation] Prakticheskie zaniatiia po tekhnologii prigotovleniia pishchi. Izd.2., perer. i dop. Moskva, Ekonomika, 1964. 307 p. (MIRA 17:9)

CHERVYAKOVA, P.A., Cand Agr Sci -- (diss) "Effect of the conditions of cultivation of barley hybrids on their productivity." Khar'kov, 1958 19 pp (Min of Agr USSR. Khar'kov Order of Labor Red Banner Agr Inst im V.V. Dokuchayev) 120 copies (KL, 27-58, 115)

CHERVYAKOV, Pavel Alekseyevich; MORDVINOV, V.V., red.; POPOV, A.N., red.izd-va; SHLENSKAYA, V.A., red.izd-va; TSAGURIYA, G.M., tekhn. red.

[Organization and technique of the foreign trade of the U.S.S.R.] Organizatsiia i tekhnika vneshnei torgovli SSSR. Perer., dop. izd. Moskva, Vneshtorgizdat, 1962. 351 p. (MIRA 16:4)

(Russia--Commerce)

LITVINENKO, A.I., kand. sel'skokhoz. nauk; CHERVYAKOVA, P.A., kand. sel'skokhoz. nauk

Biological role of a large quantity of pollen in fertilization. Agrobiologiia no.6:865-868 N-D '65. (MIRA 18:12)

1. Khar'kovskiy pedagogicheskiy institut.

CHERVYAKOVA, S.A., vrach (Moskva)

Mistakes and dangers in the use of enemas. Med. sestra 20 no.1: 38-42 Ja '61. (MIRA 14:3)

(ENEMA)

BRAYTSEV, V.Ya., prof.; VLASOVA, Ye.F., dr. med. nauk;
CHERVYAKOVA, S.A. (Moskva)

Role of corticosteroid hormones in the pathogenesis and treatment of hematogenous osteomyelitis. Khirurgiia 40 no.2:51-56 F '64. (MIRA 17:7)

L 14402-63 EPR/EWP(r)/EPA(b)/EPF(c)/EWT(1)/EPF(n)-2/EDS AFFTC/ASD/
SSD Ps-4/Pd-4/Pr-4/Pu-4 WW/IJP(C)
ACCESSION NR: AP3003045 S/0170/63/000/006/0031/0036

AUTHOR: Chervyakov, S. S. (Minsk)

TITLE: Experimental investigation of the effect of vibration of a sphere on heat and mass transfer in a turbulent air flow

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 6, 1963, 31-36

TOPIC TAGS: Heat transfer, mass transfer, vibrating sphere, turbulent air flow

ABSTRACT: Convective heat and mass transfer in the case of a vibrating moist, capillary-porous sphere were investigated for the conditions Re = (3-13) x 10^4, degree of turbulence 2.4-3.2 percent, temperature 40° C, vibration rate 7-17 cps, amplitude 9 and 12 mm, on the apparatus shown in Figure 1 of Enclosure 1. The results are summarized in Figure 3 of Enclosure 2 in the form Nu = f(Re) and Nu sub m = f(Re). Original article has: 3 figures.

ASSOCIATION: Institut teplo- i massoobmena AN BSSR, Minsk (Institute of Heat and Mass Transfer, AN BSSR)

SUBMITTED: 05Mar63 DATE ACQ: 22Jul63 ENCL: 02
SUB CODE: PH NO REF SOV: 005 OTHER: 001

Card 1/1

CHERVYAKOVA, V. I.

Sborka I Regulirovka Elektroizmeritel'nykh Priborov (The assembling and Adjusting of Electric Meters, By) M. F. Vlasov, S. M. Pigin I V. I. Chervyakova. Moskva, Gosenegoizdat, 1955.

245 (3) p. Illus., Diagrs., Tables.
"Literatura": p. (247)

AUTHOR: Chervyakova, V.I., Engineer, ("Vibrator Works")

TITLE: Small-sized panel mounted magneto-electric and electromagnetic instruments with spring suspensions. (Shchitovye malogabaritnye pribory na rastyazhkakh magnito-elektricheskoy i elektromagnitnoy sistemy.)

PERIODICAL: "Vestnik Elektropromyshlennosti" (Journal of the Electrical Industry), 1957, Vol. 28, No. 5, pp. 12.-15, (U.S.S.R.)

ABSTRACT: It has recently become possible to develop instruments with horizontal spring suspensions differing from previous designs in that the working length of the suspension is less and the tension is greater.

This article gives the elements of the design of an instrument with horizontal spring suspension and the technical and operational parameters of a new series of instruments, with a description of some special features of their design and manufacture.

An expression is derived for the sag, and the influence of different features is considered. Outside Russia, instruments of class 0.5 with a working length of suspension of 10 mm are made using platinum alloys. It has been shown that, using bronze spring suspensions, class 1.5 instruments with an angle of rotation of 90 degrees can be made with a suspension length of 10 mm and class 0.5 with a length of 12 mm. It is shown

Small-sized panel mounted magneto-electric and electro-magnetic instruments with spring suspensions. (Cont.)

how further reduction in the working length leads to an increase in tension. It is also shown that for a given ratio of ribbon width and thickness the opposing torque is in functional relationship with its breaking stress. For design purposes, it is convenient to use graphs of the torque as a function of breaking stress and such a graph is given for beryllium bronze. Thus, from the weight of the various parts, it is possible with a given measuring mechanism to determine the least tensile stress and the least torque that can be used in the design. That is to say it is possible to determine the maximum sensitivity of the instrument, or if this is given, then the parameters of the coil or the ampere turns. To develop more sensitive spring suspension instruments the weight of the moving parts must be reduced. But as such reduction is inevitably associated with reduction in the torque it is evident that there is a limit to possible increase in sensitivity of instruments on horizontal spring suspensions. Since in these instruments there are no friction bearings the instruments can be made more resistant to vibration and mechanical damage than corresponding pivot-type instruments. Longitudinal damping is provided by the springs and special devices must be provided to limit vertical movement. A series of instruments has been developed with horizontal spring suspension. There are two kinds of micro-ammeter, one of class 2.5 with a scale

Small-sized panel mounted magneto-electric and electro-magnetic instruments with spring suspensions. (Cont.) 412

length of 30 mm and one of class 1.5 with a scale length of 50 mm. The instruments are made for ranges of 10 micro-amps and upwards and withstand shaking with accelerations of up to 70 - 100 m/sec^2 with a shock frequency of 100 - 120 to a minute and vibration with accelerations up to 30 m/sec^2 at frequencies of 15-50 c/s without external damping. The weight of an instrument for 10 micro-amps is 100 grams and that of the more accurate instrument 180 grams. Small-sized panel mounting instruments have also been developed. The strength and reliability of the instruments requires that the spring suspensions do not lose their elastic properties and, therefore, it is most important to pay special attention to fixing the suspension both to the damping springs and to the moving part of the instrument. It is advisable to use symmetrical damping springs which have been aged before assembly by maintaining them for a time at high temperature.

3 figures, no literature references.

89645
S/115/61/000/002/006/006
B116/B203

9.6000 (1140, 1089, 1331)

AUTHOR: Chervyakova, V. I.

TITLE: Thermoinstruments with strap suspension

PERIODICAL: Izmeritel'naya tekhnika, no. 2, 1961, 42-45

TEXT: The development and production of thermoinstruments for laboratories at the "Vibrator" Plant is closely related to an extensive use of strap suspension. The development and production of such instruments became only possible with the production of microwire with glass insulation developed by A. V. Ulitovskiy. Up to now, the T13 (T13) milliammeters with a measuring range of up to 1 and 3 ma are superior to all similar instruments of foreign firms. As, however, high-accuracy thermoinstruments with a wide frequency range are demanded, five new, improved types of thermoinstruments of the quality class 0.5 with standardized pointer measuring system of small dimensions and with strap suspension have been developed for laboratories within a short time. They are produced in series. Besides, thermomilliammeters with a frequency range of up to 100 megacycles/sec, thermoammeters with high-frequency current transformers, and thermovolt-

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Thermoinstruments with...

meters with a frequency range of up to 30-40 megacycles/sec, are produced. These instruments are described; their main characteristics are compiled in a table. A special feature of this series of new thermoinstruments is their abstract linear scale. Indications in units of the measured quantity are read by means of a conversion scale (Fig.1). The conversion scale belongs to the corresponding high-frequency accessory. The conversion device facilitates the exchange of thermocouples when burnt out, permits to produce a thermocouple set for a measuring system, and facilitates the production of exchangeable measuring systems. In all these instruments, the measuring circuit is separated from the high-frequency circuit, and has with the latter either a capacitive connection (contactless thermocouples) or an inductance connection (current transformers). In the new T14 (T14) thermoammeter with an I104 (I104) high-frequency current transformer (for reducing the capacitive connection between the measuring circuit and the primary lead with the measured high-frequency current), the current transformer is completely screened, and has a working slit outside. The working frequency range of the current transformer lies between 5 kilocycles/sec and 30 megacycles/sec. The use of a new high-frequency insulating material warrants the work of the current transformer in high-

voltage circuits with a potential of up to 5 kv referred to the earth. The use of a ferrite core reduces the cost of the current transformer without changing its working frequency range. In the new Т15 (T15) and Т15/1 (T15/1) thermomilliammeters, the high-frequency part consists of a contactless ТВБ (TVB) vacuum thermocouple mounted in a polystyrene casing. The new instruments also comprise thermovoltmeters first developed in the USSR and produced in series. The high-frequency accessory of the Т16 (T16) thermovoltmeter consists of a ТВБ-2 (TVB-2) vacuum thermocouple and a БЛП (BLP) supplementary resistor (not made of wire), both mounted in a metal casing. At present, the instrument is produced in series. The multi-range thermovoltmeter of the type Т17 (T17) takes a special position among the new instruments. It is produced with measuring ranges of 75 mv and more. In this instrument, the ordinary contactless vacuum thermocouple for 1 ma is coupled with a photocompensation amplifier with a measuring range of up to 40 microvolt. Thus, the instrument acquires quite new properties: high input impedance of 10 kiloohms, and stability to overloads. Twofold continuous overloads and tenfold short-termed overloads are permissible. Fig.3 shows the basic circuit diagram of the instrument. Thermovoltmeters are produced with measuring ranges of

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75 - 150 - 300 - 750 - 1500 mv or 3 - 7.5 - 15 - 30 v. Their quality class is 1.5, current consumption is 100 microamperes. They are intended for d.c. and a.c. circuits in a frequency range of 20 cycles - 1 megacycle/sec. But they can also operate at frequencies below 20 cycles/sec. With some modifications on the vacuum thermocouple, these voltmeters can also be used for subsonic-frequency measurements. New, highly sensitive thermoinstruments for laboratories were developed in 1960 in four types: T130 (T130), T131 (T131), T132 (T132), and T133 (T133), with modernized photoamplifiers, new and more compact amplifiers, and a horizontal strap suspension. T131 and T132 are modernized T17. The T130 instrument is a multi-range millivoltmeter with low input impedance (current consumption 2.5 ma) and a measuring range to 30 mv. T133 is a multi-range thermomicroammeter with measuring ranges of 100 - 250 - 500 - 1000 microampere. This series of instruments has a vertical scale, and belongs to the standard series of highly sensitive photocompensation d.c. instruments developed and produced at the "Vibrator" Plant. There are 3 figures and 1 table.

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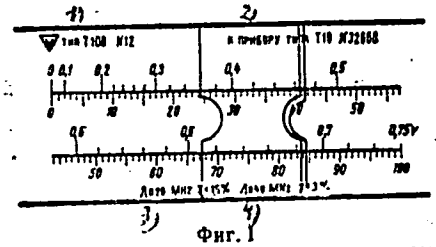
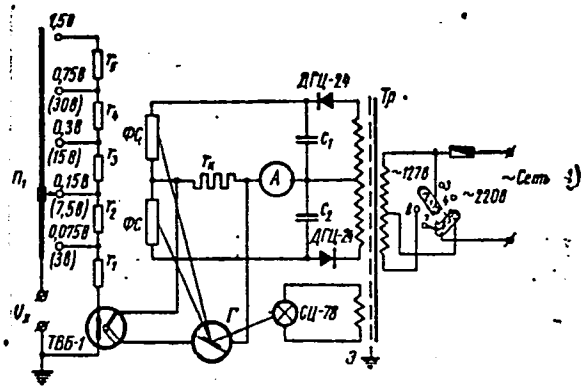


Фиг. 1

Fig. 1

Legend to Fig.1: 1) Type, 2) to the instrument of type, 3) up to 20 megacycles/sec, 4) up to 40 megacycles/sec.



Фиг. 3

Fig. 3

Legend to Fig. 3: 1) Net.

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1) Тип прибора	2) Верхние пределы измерения	3) Класс точности	4) Род тока	5) Области частот, гц	
				6) номинальная	7) расширенная
5) Термоамперметры Т14	4; 6; 10; 15; 25; 40 и 60 а	4	~	5.10^2–(5–30).10^2	–
7) Термомиллиамперметры Т15/1	5 ма	1,0	~	20–25.10^2	75.10^2
	10 ма			20–25.10^2	70.10^2
8) Термомиллиамперметры Т15	30; 50 ма	1,0	~	20–20.10^2	70.10^2
	100 ма			20–20.10^2	60.10^2
	300 ма			20–10.10^2	30.10^2
9) Термовольтметры Т16	0,75; 1,5; 3 в	1,5	~	20–20.10^2	40.10^2
	7,5; 15; 30 в			20–15.10^2	30.10^2
10) Термоамперметры Т18	0,5; 1; 2,5; 5; 10; 15; 25 а	1,5	~	50–2.10^2	5.10^2
	50 а			50–1.10^2	2.10^2

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Legend to the table: 1) Type of instrument, 2) upper measuring ranges, 3) quality class, 4) type of current, 5) frequency range, cycles/sec, 6) normal frequency range, 7) extended frequency range, 8) T14 thermoammeter, 9) T15/1 thermomilliammeter, 10) T15 thermomilliammeter, 11) T16 thermovoltmeter, 12) T18 thermoammeter.

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CHERVYAKOVA, Vera Ivanovna; TALITSKIY, A.V., red.; BUL'DYAYEV, N.A., tekhn. red.

[Thermoelectric devices] Termoelektricheskie pribory. Moskva, Gosenergoizdat, 1963. 102 p. (Elektroizmeritel'nye pribory, no.4) (MIRA 17:1)

VLASOV, Mikhail Fedorovich; PIGIN, Sergey Mikhaylovich; CHERVYAKOVA, Vera Ivanovna; LAVRUKHIN, M.A., retsenzent; TKALIN, I.M., retsenzent; LEKHSHTEYN, L.I., red.; ZHISHNIKOVA, O.S., tekhn. red.

[Assembly and adjustment of electric measuring devices]Sborka i regulirovka elektroizmeritel'nykh priborov. Izd.2., perer. Moskva, Gosenergoizdat, 1963. 260 p. (MIRA 16:3)
(Electric meters)

CHERVYAKOVA, V. V.

with A. A. Presnyakov "Plasticity of Molten Binary Alloys Al - Cu at High Temperatures"

Transactions of the Inst. of Nculear Physics, Kazakh SSR, Acad. Sci. Trudy, v. i., Alma-Ata, Izd-vo AN Kaz SSR, 1958,

This vol. contains results of research at the Inst. of Nuclear Physics for the years 1954-56.

SOV/137-59-5-10979

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, pp 218-219 (USSR)

AUTHORS: Presnyakov, A.A., Chervyakova, V.V.

TITLE: On the Ductility of Binary Al-Cu Alloys in Cast State at High Temperatures

PERIODICAL: Tr. In-ta yadern. fiz. AS KazSSR, 1958, Vol 1, pp 234 - 236

ABSTRACT: During static tension tests of Al and its alloys a minimum of ψ was observed at 100°C; higher test temperatures caused an increase in ψ. At 400°C the value of ψ for all the alloys was of the same order as for pure Al (85 - 100%). During dynamic tension tests, the minimum of ductility shifted toward the side of higher temperatures (200°C). At ~ 500°C a secondary temperature zone of reduced ductility appeared. It is stated that the minimum of ductility observed in Al-Cu alloys at 100 - 200°C is regular for all solid solutions with a hexagonal-centered-cubic lattice.

Card 1/1 L.Ye.

CHERVYAKOVA, V.V.

24-58-3-17/38

AUTHORS: Presnyakov, A.A. and Chervyakova, V.V. (Alma-Ata)

TITLE: The Phenomenon of "Super-Plasticity" in the System Aluminium-Copper (Yavleniye "sverkhplastichnosti" v sisteme alyuminiy-med')

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 3, pp 120-121 (USSR)

ABSTRACT: According to Bochvar and Sviderskaya (Ref.1) an alloy in the "superplastic state" is characterised by a particularly low value of the resistance to deformation and an unusually high plasticity compared to other alloys and pure components of the investigated system. As far as the authors are aware, the effect of "super-plasticity" was detected only in the system Al-Zn during dilatometric investigation of the hardened alloy of eutectoidal composition. A. A. Bochvar (Ref.2) attributes this phenomenon to a new mechanism of plastic deformation caused by a particular structural state of the alloy and considerable changes with temperature of the solubility of zinc in aluminium. On the basis of the results of Shishokin et alii (Ref.3), relating to the anomalous change of the temperature coefficient of the hardness of low melting point eutectic alloys, a considerable deviation from the additivity rule can be anticipated when investigating such

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